INDEX TO VOLUME XLIII.

A.

Acarus Crossi, 395.
species of, noticed, 205.
Adams, C. B., on a new species of Thracia, 145.
Agassiz's Monographie d'Echinodermes, 390.
Agriculture of Massachusetts, fourth report on, 202.
Albumen, vegetable and animal, 402.
Algebra, Perkins's, 380.
Sherwin's treatise on, 190.
Allen, Z., observations on the Providence tornado, 137, 264.
American Geologists and Naturalists, proceedings of third annual meeting, 146.
Prof. Silliman's address before, 217.
Anderson, P., on foot-prints in solid limestone, 14.
Anthracite, porous, of Virginia, 175.
Appalachian chain, structure of, 177, 180.
Archimedes, fossil, 19.
Ashes, wood, properties of, 80.

B.

Bacillaria, sketch of, 321.
Bailey, J. W., sketch of the Infusoria of the family Bacillaria, 321.
Bond, W. C., observations on the meteor of Nov. 10th, 1841, 399.
Botanical necrology, 214.
Text Book, Gray's, 388.
Botany, London Journal of, 189, 385.
Bowlders, distribution of, 163.
British Association, proceedings of, 367.

C.

Calstron-baryte not a mineralogical species, 366.
Cambridge Miscellany, 392.
Carbon, use of in Grove's battery, 393.
Caricography, 90.
Carreno, M., death of, 215.
Caseine, vegetable and animal, 402.
Catlin's Letters and Notes on the North American Indians, 203.
Channing, W. F., on photographic processes, 73.
Chelonia Couperi, a new fossil mammal, 144.
Chemistry, Liebig's Animal, 379.
Chlorine in meteoric iron, 169, 359.
Coal mines in the vicinity of Richmond, Va., 1.
rocks of Virginia, age of, 175.
Coke, natural, of Virginia, 175.
Colman's Report on the Agriculture of Massachusetts, 202.
Connecticut, catalogue of the mammalia of, 345.
Copper ores in Wisconsin, 38.
Corn, Indian, oil of, 403.
Couthouy, J. P., remarks on elevation of the earth's surface, 153.
remarks on icebergs, 154.
Currents, permanent system of, connected with the earth's rotation, 152.
Cuscutineæ, North American, monography of, 333.

D.

Daguerreotype experiment by galvanic light, 185.
Dana's Muck Manual for Farmers, 192.
Darlington, W., notice of Gray's Botanical Text Book, 388.
Davis's Manual of Magnetism, 381.
Dewey, C., on caricography, 90.
obituary of Prof. Amos Eaton, 215.
Didym, a new metal, 404.
Diluvial action, evidences of in the Appalachian chain, 181.
scratches, how produced, 163.
Dobson, Peter, Mr. Murchison's tribute to, 200.
Don, Prof. D., obituary of, 214.
Drift, deposited during a period of subsidence, 152.
phenomena of, 151, 163.

E.

Eaton, Prof. A., obituary notice of, 215.
Echinellea of the family Bacillaria, 321.
Echinodermata, Agassiz's monograph of, 390.
Eclipse, solar, of July 8th, 1842, 401.
Ehrenberg's notices of American infusoria, 393.
Electrotype, Zantedeschi's memoir on, 390.
Emmet, J. P., death of, 404.
Engelmann, G., monography of the North American Cuscutineæ, 333.
Espy, J. P., meteorological notice, 401.
Euclase, discovery of in Connecticut, 366.
Exploring expedition, U. S., 208.

F.

Farmers, Muck Manual for, 192.
Fibrine, vegetable and animal, 402.

Fishes, fossil, 172.
Flora Rossica, 188.
Foot-prints, human, in solid limestone, 14.
Fossil, chambered univalve, 187.
fishes of Sunderland, &c., 172.
foot-marks, new species of, 172.
mammals, two new, 141.
rain-marks in new red sandstone, 172.
Fossils in coal rocks of Virginia, 175.
Fungus, microscopic, 205.

G.

Galvanic light, Daguerreotype experiment by, 185.
Geine essential to agriculture, 195.
Geologists and Naturalists, American, third annual meeting of, 146.
Prof. Silliman's address before, 217.
Geology of the Upper Mississippi, 147.
in the United States, early condition of, 230.
comparison of with European, 238.
Goode, W. H., Daguerreotype experiment by galvanic light, 185.
Gray, A., botanical necrology, 214.
Botanical Text Book noticed, 388.
Grove's battery, use of carbon in, 393.
Guillemin, M., obituary of, 214.

H.

Haldeman's Monograph of the Limniades, 391.
Hare, R., additional objections to Mr. Redfield's theory of storms, 122.
Mr. Redfield's reply to, 250.
Harlan, R., notice of two new fossil mammals, 141.
Harris, T. W., Report on the Insects of Massachusetts noticed, 386.
W. Snow, meteorological observations, 369.
Hayes, A. A., on the identity of pyrochlore with microlite, 33.
Herrick, E. C., ancient meteorological notices, 398.
on the shooting stars of April 20-21, 1842, 212.
on the shooting stars of August 8th, 9th and 10th, 1842, 377.
Herschel, J., on magnetic and meteorological observations, 372.
Hitchcock, E., remarks upon Mr. Murchison's address before the London Geological Society, 396.
review of Dana's Muck Manual, 192.
Hodge, J. T., on the Wisconsin and Missouri lead region, 35.
Hooker's Icones Plantarum, 386.
London Journal of Botany, 189, 385.
Hutton's table of products, errors in, 116.

I.

Icebergs, remarks upon, 154.
Icones Plantarum, Hooker's, 386.
Indian corn, oil of, 403.
implements, 31.
Indians, North American, Catlin's notes on, 203.
Infusoria, American, Ehrenberg's notices of, 393.
of the family Bacillaria, 321.
Infusorial strata of Virginia, 329.
Insects of Massachusetts, Harris's Report on, 386.
Iron, meteoric, analyses of, 169.
chlorine in, 169, 359.
from Tennessee, analysis of, 354.

J.

Jackson, C. T., on pot-holes in New Hampshire, 154.
on the phenomena of drift, 151.
on tin veins in New Hampshire, 168.

K.

Kentledge iron in New Haven harbor, 360.
Kunze, Supplement to the Carices, 189.

L.

Lacernata of the family Bacillaria, 326.
Lambert, Mr., obituary of, 214.
Lead, ores of in Virginia, 169.
region of Missouri, 55.
of Wisconsin, 35.
smelting of, 43.
Leedebour's Flora Rossica, 188.
Liebig's Animal Chemistry noticed, 379.
Limestone, human foot-prints in, 14.
Limniades, Haldeman's monograph of, 391.
Linsley, J. H., catalogue of the mammalia of Connecticut, 345.
Locke, J. L., on the geology of the Upper Mississippi, 147.
Loomis, E., dip and variation of the magnetic needle in the United States, 93.
errata in Hutton's table of products, 116.
on the shooting stars of April 20-21, 1842, 214.
tornado in N. E. part of Ohio, 278.
London Journal of Botany, 189, 385.
Microscopical Society, reports of, 391.
Loudon's Encylcopædia of Trees and Shrubs, 188.

M.

Maclure, Wm., geological labors of, 232.
Magnetic and meteorological observations, 372.
iron in meteoric iron, mode of detecting, 358.
needle, dip of, 93.
variation of, 106.
Magnetism, Davis' Manual of, 381.
Mammalia of Connecticut, catalogue of, 345.
Mammals, two new fossil, 141.
Manchester Geological Society, Transactions of, 201.
Mantell, Dr., memoirs on Saurian remains, 189.
testimonial to, 206.
Thoughts on a Pebble, 382.
Mason, E. P., Life and Writings of, 381.
Massachusetts, agriculture of, fourth report on, 202.
insects of, Harris's report on, 386.
Medal, gold, awarded to Prof. Robinson, 404.
Metal, new, discovery of, 404.
Meteor, explosion of, near Boston, in 1689, 399.
of Nov. 10th, 1841, 399.
Meteoric iron, analysis of, 169.
chlorine in, 169, 359.
from Tennessee, analysis of, 354.
observations at New Haven, Aug. 8th, 9th and 10th, 1842, 377.
rain in Hungary, terrestrial origin of, 401.
Meteorological notices, ancient, 398.
observations at Plymouth, Eng., for 1841, 369.
request of Prof. Espy, 401.
Michaux's North American Sylva, 188.
Microlite, identity of with pyrochlore, 33, 116.
Microscopic Journal, London, 392.
Microscopical researches, 219.
Society of London, reports of, 391.
Miller, Hugh, geological researches of, 198.
Mines, coal, near Richmond, Va., 1.
lead, in Missouri, 55.
in Wisconsin, 35.
Missouri lead region, remarks upon, 55.
Mounds, ancient, in the United States, 152.
Muck Manual for Farmers, 192.
Murchison's address before the London Geological Society, 197.
Prof. Hitchcock's remarks upon, 396.

N.

Nautilus, fossil, 187.
Necrology, botanical, 214.
Needle, magnetic, dip of, 93.
variation of, 106.

O.

Obituary notices, 214.
Oil of Indian corn, 403.
Olmsted's Life and Writings of Mason noticed, 381.
Owen, D. D., on human foot-prints in solid limestone, 14.

P.

Pebble, Thoughts on, Mantell's, 382.
Pentremites, fossil, 20.
Perkins's Algebra noticed, 380.
Phenakite, supposed, from Goshen, Mass., 366.
Photographic processes, observations on, 73.
Plants, growth of in closely glazed cases, 383.
Plummer, J. T., on the properties of wood ashes, 80.
Producta, fossil, 18.
Providence tornado, 137, 263.
Pyrochlore, analysis of, by Wöhler, 35.
identity of with microlite, 33, 116.

R.

Rain-marks, fossil, 172.
Rain, meteoric, in Hungary, terrestrial origin of, 401.
Redfield, W. C., on ancient polar currents, 152.
on drift deposit about New York, 152.
on fossil fishes, 172.
on fossil rain-marks in new red sandstone of New Jersey, 172.
on new foot-marks in new red sandstone of Connecticut, 172.
on Providence tornado, 263.
theory of storms, Dr. Hare's objections to, 122.
reply to Dr. Hare's objections, 250.
Robinson, Prof. E., award of gold medal to, 404.
Rogers, H. D., on the dip of geological strata, 170.
on the elevation of the earth's surface, 153.
on the structure of the Appalachian chain, 177, 180.
Rogers, J. B., analyses of meteoric iron, 169.
Rogers, W. B., on chlorine in meteoric iron, 169.
on fossil foot-marks, 173.
on ores of zinc and lead in Virginia, 169.
on oxide of tin in Virginia, 168.

Rogers, W. B., on subterranean temperature, 176.
on the age of the coal rocks of Virginia, 175.
on the dip of geological strata, 171.
on the porous anthracite of Virginia, 175.
on the structure of the Appalachian chain, 177.
on the thermal springs of Virginia, 176.
proofs of diluvial agency, 181.

S.

Saurian remains, Mantell's memoirs on, 189.
Schoolcraft, H. L., on foot-prints in solid limestone, 22.
Science, new works in, 205.
British Association for the Advancement of, 367.
Shepard, C. U., analysis of meteoric iron from Tennessee, 354.
on chlorine in meteoric iron, 359.
on Euclase in Connecticut, 366.
on supposed Phenakite and Calstron-baryte, 366.
on the want of identity between microlite and pyrochlore, 116.
on Washingtonite, a new mineral, 364.
Sherwin's Treatise on Algebra, 190.
Shooting stars of April 20—21, 1842, 212.
of Aug. 8th, 9th and 10th, 1842, 377.
Silliman, Prof., address before the Association of American Geologists, 217.
remarks upon ancient mounds, 152.
Silliman, B. Jr., Daguerreotype experiment by galvanic light, 185.
on the use of carbon in Grove's battery, 393.
Smelting of lead, 43.
Smith, J. L., on the composition of spermaceti, 301.
W., his labors in English geology, 226.
Snow, red, near Boston, in 1688, 399.
Solar eclipse of July 8th, 1842, 401.
Spermaceti, composition of, 301.
distillation of, 312.
nature of, 315.
oxidation of, 318.
Stars in the Histoire Céleste, reduction of, 367.
Lacaille's, reduction of, 368.
of the British Association catalogue, 368.
shooting, of April 20—21, 1842, 212.
Stars, shooting, of Aug. 8th, 9th and 10th, 1842, 377.
Steam navigation in the Pacific, 207.
Storms, Dr. Hare's objections to Mr. Redfield's theory of, 122.
Mr. Redfield's reply to, 250.
Strong, T., on the principle of virtual velocities, 77.
Subterranean temperature, 176.
Sus Americana, a new fossil mammal, 143.

T.

Temperature, subterranean, 176.
Teschemacher, J. E., on the identity of pyrochlore with microlite, 33.
Thermal springs in Virginia, 176.
Thracia inequalis, a new shell, 145.
Tin veins in New Hampshire, 168.
Tornado at Morgan, Ohio, in 1823, 299.
at Providence, R. I., 137, 263.
in N. E. part of Ohio, 278.
Tornadoes considered as water-spouts, 265.
in the United States, 298.
Tracy, C., on the oil of Indian corn, 403.
Trimmer's Practical Geology and Mineralogy noticed, 191.
Tuomey, M., on a fossil Nautilus, 187.

V.

Variation of the magnetic needle in the United States, 106.
Vaucher, M., death of, 215.
Vegetable and animal fibrine, albumen and caseine, 402.
Velocities, virtual, principle of, 77.
Vogel, Dr., obituary of, 215.

W.

Ward's treatise on the growth of plants in closely glazed cases noticed, 383.
Washingtonite, a new mineral, 364.
Water-spouts considered as whirlwinds, 265.
Weekes, W. H., voltaic experiments of, 395.
Wheelwright, W., on steam navigation in the Pacific, 207.
Whirling action of Providence tornado, 263.
Wind, velocity of, 370.
Wisconsin, copper ores in, 38.
lead region, remarks upon, 35.
Wood ashes, properties of, 80.
Wooldridge, A. S., on the coal mines of Richmond, Va., 1.

Z.

Zantedeschi's Memoir on the Electrotype, 390.
Zinc, ores of in Virginia, 169.